

FIG. 1

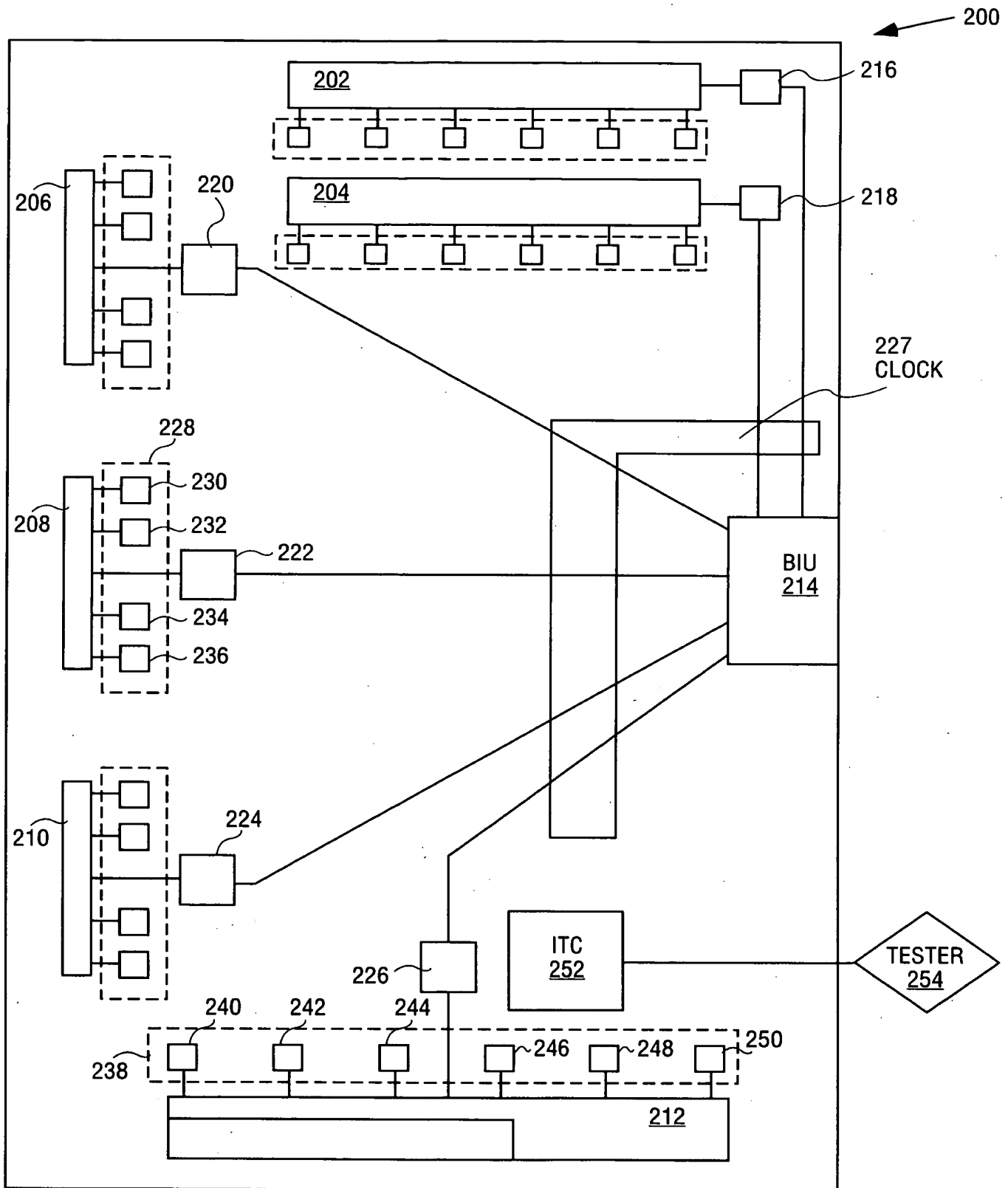


FIG. 2

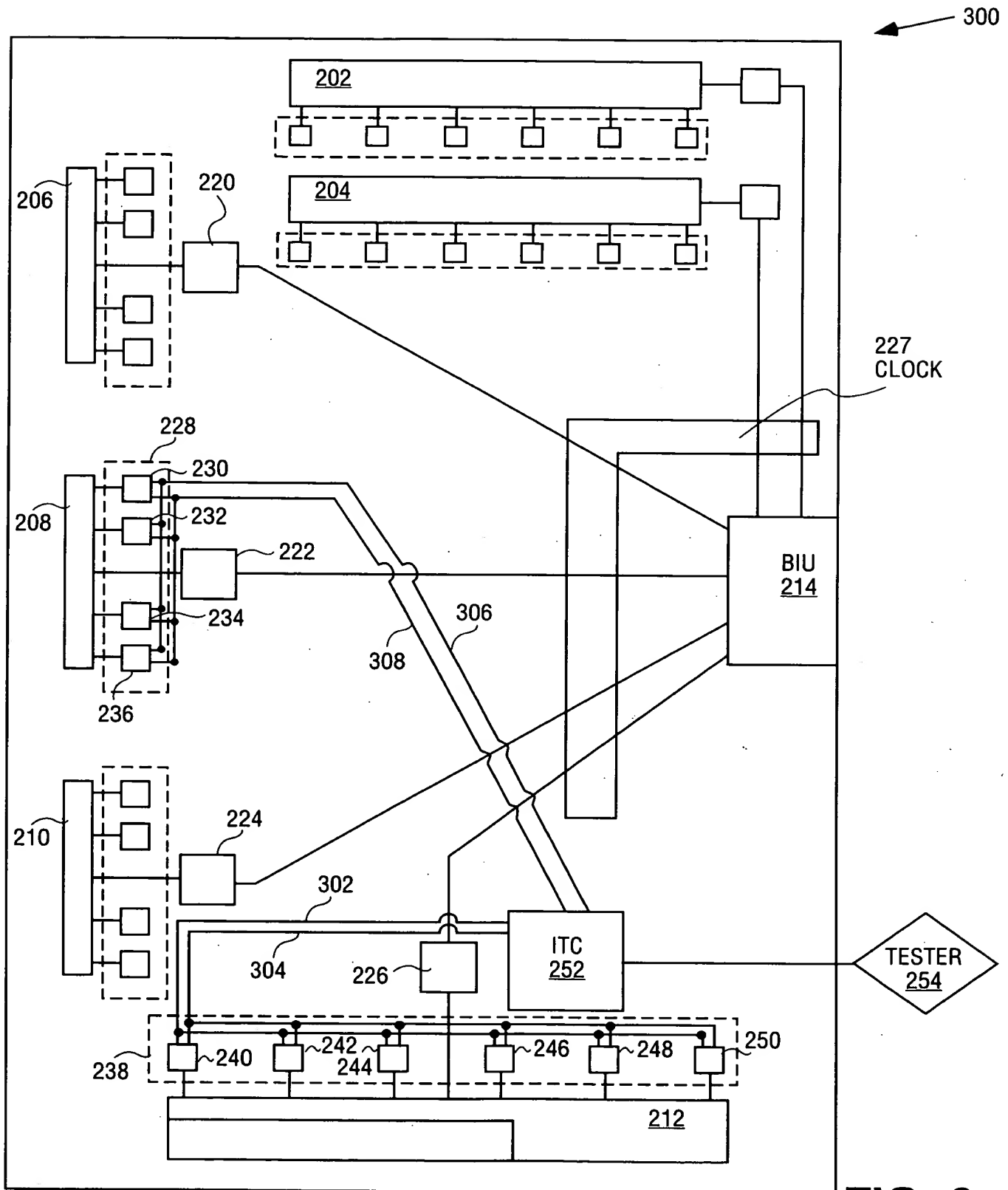


FIG. 3
(PRIOR ART)

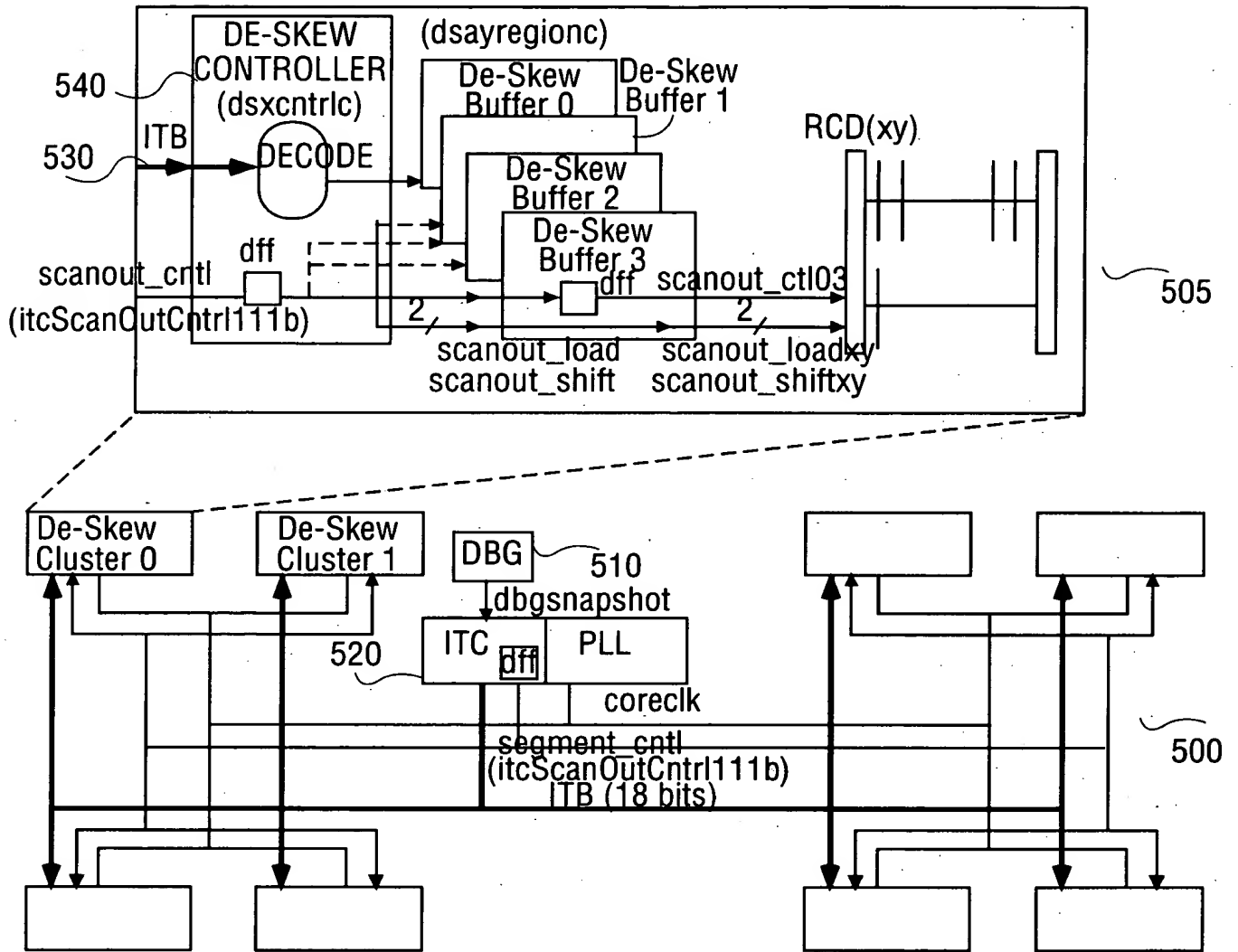


FIG. 5

control line/clock	Logic equations / details	Generated from	Driven to
scanout_load (non_critical)	SCANOUTSIG + SCANOUTLOAD + SCANOUTLOADDBG + (ISCAN_BUS + ISCAN_TAP)	De-skew controller	all LBFs
scanout_shift (non_critical)	SCANOUTSIG + SCANOUTSHIFT	De-skew controller	all LBFs
ck (clock driving scanout ff)	scanout_ctl & qclk	LBF	LBF
scanout_ctl	1. (SCANOUTLOADDBG & Run-test/Idle 2. (SCANOUTLOAD & Run-test/Idle & TDI) + 3. (SCANOUTSHIFT & (TCK & gclk)*) + 4. SCANOUTRST + 5. (SCANOUTSIG + Run-test/Idle & dbgnsnapshot 6. (ISCAN_BUS + ISCAN_TAP)	ITC, staged in De-skew cluster	all LBFs

FIG. 6

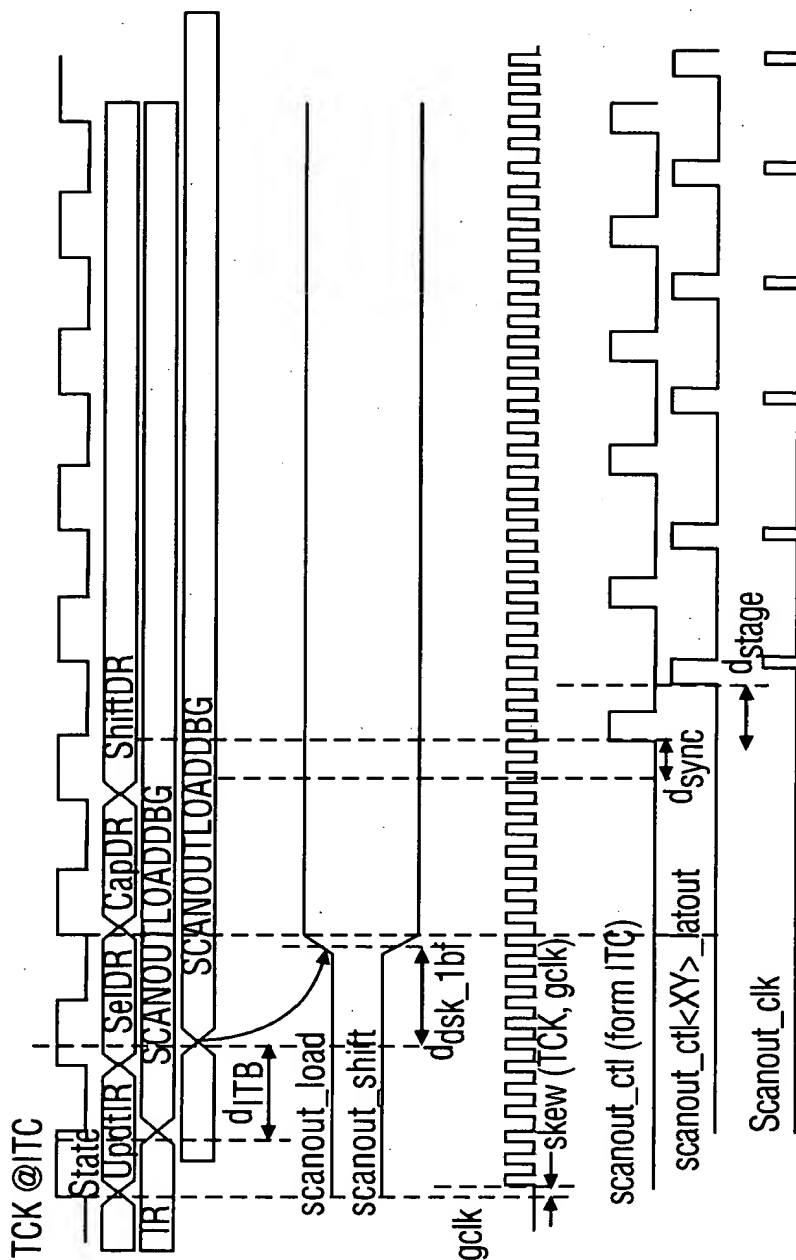


FIG. 7

